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1

## REMARKS

2 These remarks follow the order of the paragraphs of the office action. Relevant portions of the  
3 office action are shown indented and italicized.

4

*Claim Objections*

5 1. *Claim 26 objected to because of the following*  
6 *informalities: it does not exist. Appropriate correction is*  
7 *required.*

8 In response, applicants respectfully state that claim 26 is canceled herewith.

9 2. *Claim 9 objected to because of the following informalities:*  
10 *page 11, line 13 "requester;" should read "requester."*  
11 *Appropriate correction is required.*

12 In response, applicants respectfully state that claim 9 is canceled herewith.

13 3. *Claim 14 objected to because of the following*  
14 *informalities: pg.12, lines 8 "registry;" should read*  
15 *"registry.". Appropriate correction is required.*

16 In response, applicants respectfully state that claim 14 is canceled herewith.

17 4. *Claim 18 objected to because of the following*  
18 *informalities: pg.13, lines 7 "Proxy;" should read "Proxy."*  
19 *Appropriate correction is required.*

20 In response, applicants respectfully state that claim 18 is canceled herewith.

21

*Claim Rejections - 35 USC § 102*

22 1. *The following is a quotation of the appropriate paragraphs*  
23 *of 35 U.S.C. 102 that form the basis for the rejections under*  
24 *this section made in this Office action:*

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1       A person shall be entitled to a patent unless (e) the invention was described  
2       in (1) an application for patent, published under section 122(b), by another  
3       filed in the United States before the invention by the applicant for patent or  
4       (2) a patent granted on an application for patent by another filed in the United  
5       States before the invention by the applicant for patent, except that an  
6       international application filed under the treaty defined in section 351(a) shall  
7       have the effects for purposes of this subsection of an application filed in the  
8       United States only if the international application designated the United States  
9       and was published under Article 21 (2) of such treaty in the English language.

10       2       Claim 1-7, 9-16, and 18-27 rejected under 35 U.S.C. 102(e) as  
11       being unpatentable by U.S. 2002/0194498 to Blight et al. Regarding  
12       claim 1, Blight et al. teaches a method comprising a requester  
13       discovering at least one service in a local domain, including the  
14       steps of: obtaining an address of a proxy serving as a Service  
15       Discovery Proxy for said local domain (page 2, section 0017 and  
16       page 4, section 0067 and page 5, section 0110-0113); establishing  
17       a connection to said Service Discovery Proxy; and employing said  
18       Service Discovery Proxy in discovering dynamic availability of  
19       said at least one service in said local domain (page 1, section  
20       0016 and page 4, section 0075-0087 and 0104 and page 7, section  
21       0205-0221).

22       In response, applicants respectfully state that although there is no agreement that Blight et al.,  
23       anticipates the present invention, the independent claims are amended such as to include the  
24       limitations of allowable [objected to] claims. Thus, claim 1 is amended to include the limitation  
25       of claim 9. Claims 10 and 11 are amended to depend on claim 1. Claim 13 is amended to include  
26       the limitation of claim 14. Claim 15 is amended to include the limitation of claim 18. Claims 9,  
27       14, 18 and 26 are canceled.

28       This amendment brings claims 1-8, 10-13, 15-17, 19-25, and 27 to allowance in as much as each  
29       is, or is dependent upon, an allowable claim, besides not being anticipated or made obvious by  
30       the cited art.

31       Regarding claim 13, Blight et al. teaches a method comprising  
32       forming a Service Discovery Proxy including the steps of:  
33       assigning an available proxy to represent a local domain;  
34       establishing a connection between said available proxy and a

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1       network (page 2, section 0017); and registering said available  
2       proxy as the Service Discovery Proxy representing the local  
3       domain (page 5, section 0110-0113 and 0143 and page 7, section  
4       0212-0220).

5       *Regarding claim 15, Blight et al. teaches a Service Discovery*  
6       *Proxy comprising; a network communication module having an*  
7       *assigned communication address (page 3, section 0044), a service*  
8       *detector module to detect dynamically available services in a*  
9       *local domain represented by said proxy (page 2, section 0017); a*  
10       *processing module to process at least one incoming query from a*  
11       *requester regarding availability of at least one service (page 4,*  
12       *section 0075-0087 and 0104 and page 5, section 0110-0133); and a*  
13       *responding module to form outgoing responses to said at least one*  
14       *incoming query allowing discovery of any of said dynamically*  
15       *available services by said requester (page 7, section 0205-0221).*

16       *Regarding claim 2, Blight et al. teaches a method as recited in*  
17       *claim 1, further comprising employing one service from said at*  
18       *least one service (page 1, section 0001 and page 4, section 0087*  
19       *and page 5, section 0128-0133).*

20       *Regarding claim 3, Blight et al. teaches a method as recited in*  
21       *claim 1, wherein the step of obtaining includes: contacting a*  
22       *central registry having addresses for a plurality of Service*  
23       *Discovery Proxies; and selecting the address of a particular*  
24       *Service Discovery Proxy serving the local domain (page 2, section*  
25       *0017 and page 5, section 0111-0113 and page 7, section 0212*  
26       *0215).*

27       *Regarding claim 4, Blight et al. teaches a method as recited in*  
28       *claim 1, wherein the step of establishing includes employing said*  
29       *address in accordance with a transmission protocol (page 3,*  
30       *section 0045-0049 and page 4, section 0067 and 0101).*

31       *Regarding claim 5, Blight et al. teaches a method as recited in*  
32       *claim 4, wherein the transmission protocol is TCP/IP (page 4,*  
33       *section 0067).*

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1       Regarding claim 6, Blight et al. teaches a method as recited in  
2       claim 1, wherein the step of employing includes querying said  
3       Service Discovery Proxy for a list of services currently active in  
4       said local domain (page 4, section 0104 and page 5, section  
5       0110-0125).

6       Regarding claim 7, Blight et al. teaches a method as recited in  
7       claim 1, wherein said requester provides a list of services for  
8       which status is queried to said Service Discovery Proxy (page 4,  
9       section 0075-0087 and page 5, section 0110-0133).

10      Regarding claim 9, Blight et al. teaches a method as recited in  
11      claim 1, wherein the step of employing includes: said Service  
12      Discovery Proxy receiving a request from said requester for  
13      service discovery; said Service Discovery Proxy invoking a  
14      service discovery protocol in said local domain; customizing  
15      responses from services in said local domain; and said Service  
16      Discovery Proxy sending customized responses to said requester  
17      (page 2, section 0017 and page 7, section 0205-0221).

18      Regarding claim 10, Blight et al. teaches a method as recited in  
19      claim 9, wherein the step of customizing includes at least one  
20      function taken from a group of functions including: formatting;  
21      filtering; aggregating; encapsulating; segmenting; selecting, and  
22      a requester defined function (page 5, section 0137).

23      Regarding claim 11, Blight et al. teaches a method as recited in  
24      claim 9, wherein the service discovery protocol includes Service  
25      Location Protocol (page 3, section 0045-0049 and page 4, section  
26      0067 and 0101).

27      Regarding claim 12, Blight et al. teaches a method as recited in  
28      claim 1, wherein the step of employing includes receiving  
29      information enabling said requester to utilize said at least one  
30      service (page 1, section 0001 and page 4, section 0087 and page  
31      5, section 0128-0133).

32      Regarding claim 14, Blight et al. teaches a method as recited in  
33      claim 13, wherein the step of registering is performed employing

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1       a central registry (page 2, section 0017 and page 5, section  
2       0111-0113 and 0143 and page 7, section 0212-0214).

3       Regarding claim 16, Blight et al. teaches a proxy as recited in  
4       claim 15, wherein said communication address exists in a  
5       central registry to allow said proxy to be accessed from a  
6       plurality of requesters (page 2, section 0017 and page 4, section  
7       0067 and page 5, section 0111 0113 and 0142 and page 7, section  
8       0212-0214).

9       Regarding claim 18, Blight et al. teaches a proxy as recited in  
10      claim 15, wherein said network communication module obtains  
11      an assigned network communication address from a network  
12      address assigning entity; and registers said assigned network  
13      communication address with a central registry as a Service  
14      Discovery Proxy (page 2, section 0017 and page 4, section 0067 and  
15      page 5, section 0111-0113 and 0142 and page 7, section  
16      0212-0214).

17      Regarding claim 19, Blight et al. teaches a proxy as recited in  
18      claim 15, wherein said service detector module communicates  
19      functionality from a group of functionalities including: supports  
20      at least one at least one physical communication media; at least  
21      one link protocol; at least one network protocol; at least one  
22      transmission protocol; at least one service discovery protocol;  
23      receiving service queries from said processing module;  
24      determining an appropriate communication protocol to be used;  
25      performing service discovery in accordance with a selected  
26      service discovery protocol; and any combination of these (page 3,  
27      section 0045-0049 and page 4, section 0067 and 0075 and 0087 and  
28      0101).

29      Regarding claim 20, Blight et al. teaches a proxy as recited in  
30      claim 15, wherein said service detector module determines all  
31      appropriate communication protocol to use (page 3, section  
32      0045-0049 and page 4, section 0067 and 0101).

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1       Regarding claim 21, Blight et al. teaches a proxy as recited in  
2       claim 15, wherein said processing module performs a function  
3       taken from a group of functions including: querying the  
4       availability of at least one service; querying all available  
5       services; querying the employment of said service; interpreting  
6       said query and invoking service detector module; and any  
7       combination of these (page 4, section 0104 and page 5, section  
8       0110-0125).

9       Regarding claim 22, Blight et al. teaches a proxy as recited in  
10      claim 15, wherein said responding module transmits said query  
11      response to the requester (page 2, section 0017 and page 7,  
12      section 0205-0221).

13      Regarding claim 23, Blight et al. teaches a proxy as recited in  
14      claim 15, wherein said responding module aggregates a plurality  
15      of query responses before transmitting a particular response to  
16      the requester (page 4, section 0075 and 0087 and page 5, section  
17      0110-0133).

18      Regarding claim 24, Blight et al. teaches an article of  
19      manufacture comprising a computer usable medium having computer  
20      readable program code means embodied therein for causing  
21      requester discovery of a service, the computer readable program  
22      code means in said article of manufacture comprising computer  
23      readable program code means for causing a computer to effect the  
24      steps of claim 1 (page 2, section 0017 and page 3, section 0044).

25      Regarding claim 25, Blight et al. teaches a program storage  
26      device readable by machine, tangibly embodying a program of  
27      instructions executable by the machine to perform method steps  
28      for requester service discovery said method steps comprising the  
29      steps of claim 1 (page 2, section 0017 and page 3, section 0044).

30      Regarding claim 27, Blight et al. teaches a computer program  
31      product comprising a computer usable medium having computer  
32      readable program code means embodied therein for causing  
33      functions of a Service Discovery Proxy, the computer readable  
34      program code means in said computer program product comprising

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1 computer readable program code means for causing a computer to  
2 effect the functions of claim 15 (page 2, section 0017 and page  
3, section 0044).

4 **Claim Rejections - 35 use § 103**

5 3. The following is a quotation of 35 U.S.C. 103(a) which forms  
6 the basis for all obviousness rejections set forth in this Office  
7 action: (a) A patent may not be obtained though the invention is not  
8 identically disclosed or described as set forth in section 102 of this title, if  
9 the differences between the subject matter sought to be patented and the prior  
10 art are such that the subject matter as a whole would have been obvious at the  
11 time the invention was made to a person having ordinary skill in the art to  
12 which said subject matter pertains. Patentability shall not be negated by the  
13 manner in which the invention was made.

14 4. Claims 8 and 17 rejected under 35 U.S.C 103(a) as being  
15 unpatentable over US 2002/0194498 to Blight et al in view of  
16 Murphy et al

17 Regarding claim 8, Blight et al teaches a method as recited in  
18 claim 7 (page 4, section 0075-0087 and page 5, section  
19 0110-0133). Blight does not teach dynamically updating the list  
20 of services currently active in said local domain without  
21 registering any of said services with a central registry. Murphy  
22 et al teaches further comprising dynamically updating the list of  
23 services currently active in said local domain without  
24 registering any of said services with a central registry  
25 (abstract, column 4, lines 19-32 and column 6, line 59-column 7,  
26 line 5). Therefore it would have been obvious to one of ordinary  
27 skill in the art at the time the invention was made to further  
28 modify the mobile communication system for location aware  
29 services of Blight et al. by dynamically updating the list of  
30 services currently active in said local domain without  
31 registering any of said services with a central registry because  
32 this creates a more global system and relieves the registry of  
33 having to keep up to date information on each service.

34 Regarding claim 17, Blight et al teaches a proxy as recited in  
35 claim 15 (page 7, section 0205-0221) . Blight et al. does not

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1 teach establishes a listening port for incoming queries; and  
2 communicates with a plurality of requesters with a transmission  
3 protocol. Murphy et al teaches wherein said network communication  
4 module further: establishes a listening port for incoming  
5 queries; and communicates with a plurality of requesters with a  
6 transmission protocol (column 4, lines 11-18). Therefore it would  
7 have been obvious to one of ordinary skill in the art at the time  
8 the invention was made to further modify the mobile communication  
9 system for location aware services of Blight et al. by  
10 establishes a listening port for incoming queries; and  
11 communicates with a plurality of requesters with a transmission  
12 protocol because the proxy will be able to receive all queries  
13 that are trying to be submitted regardless of any obstruction  
14 such as a firewall.

15 This amendment brings claims 1-8, 10-13, 15-17, 19-25, and 27 to allowance. Claims 9, 14, 18  
16 and 26 are canceled. A listing of the claims is provided as required in the new USPTO  
17 amendment practice per 37 CFR 1.121.

18 It is anticipated that this amendment brings the application to allowance of all but the canceled  
19 the claims. Favorable action is respectfully solicited. In the unlikely event that any claim  
20 remains rejected, please contact the undersigned by phone in order to discuss the application.

21 Please charge any fee necessary to enter this paper to deposit account 09-0468.

22 Respectfully submitted,

23 By: \_\_\_\_\_  
24 \_\_\_\_\_  
25 \_\_\_\_\_  
26 \_\_\_\_\_  
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